

PARTICLE-MEDIATED TRANSFORMATION

OF ANIMAL SOMATIC CELLS

Abstract of the Disclosure

5 A method is disclosed for the convenient
transformation of the somatic cells of animals.
Somatic cell transformation is useful for medical and
veterinary care of genetic diseases, and other
therapeutic or animal improvement purposes. The method
makes use of an electric discharge particle
10 acceleration apparatus which can inject very small
particles of gold or other dense material carrying
genetic constructs coated on them into the living cells
of animals. The animals not only live, but there is no
visible bruising or bleeding at the site of the
15 treatment. The method is particularly adaptable since
the force of the particle injection in such a spark
discharge apparatus is adjustable by adjustments to the
voltage of the spark discharge.

NJS6/03